## **Daily Dose of Aptitude-27-06-2019**

- A) 420
- B) 840
- C) 5040
- D) 720

## Answer:A) 420

## **Explanation:**

MINIMUM contains 7 letters, so total 7! ways. But it contains 2 I's and 3 M's so divide by 2! And 3! So ways 7!/(2! \* 3!) = 7\*6\*5\*4\*3\*2\*1 / 2\*1\*3\*2\*1 = 420

2. A dishonest merchant sells his grocery using weights 15% less than the true weights and makes a profit of 20%. Find his total gain percentage.

A)37.50%

B) 41.17%

C)42.50%

D) 40.17%

Answer: B) 41.17%

Explaination:Let us consider 1 kg of grocery bag. Its actual weight is 85% of 1000 gm = 850 gm.

Let the cost price of each gram be Re. 1. Then the CP of each bag = Rs. 850.

SP of 1 kg of bag = 120% of the true CP

Therefore, SP = 120/100 \* 1000 = Rs. 1200 Tent Battle

Gain = 1200 - 850 = 350

Hence Gain % = 350/850 \* 100 = 41.17%

3. In an examination, it is required to get 296 marks out of aggregate marks to pass. A student gets 222 marks and is declared failed by 10% marks. What are the maximum aggregate marks as student can get?

- A) 830
- B) 810
- C) 780
- D) 740

Ans: D) 740

Sol: Let the maximum aggregate marks be x.

According to the question, 10% of x = 296-222

x/10=74

x = 74x10 = 740

4. A milk vendor has 2 cans of milk .The first contains 25% water and the rest milk. The second contains 50% water. How much milk should he mix from each of the container so as to get 12 litres of milk such that the ratio of water to milk is 3:5?

A)6 litres

B)1 litres

C)8 litres

D)7 litres

Ans: A)6 litres

Milk in 1st can = 34

Milk in IInd can = 1/2

Milk in Resultant mixture = 5/8

So, By the rule of allegation,

1 + 1 = 12

2 = 12, 1 = 6 liter

5. A, B and C enter into a partnership with investment of Rs. 4500, Rs. 3500 and Rs. 5500 respectively. After a year, profit is Rs. 405. What is B's share in the profit?

A) Rs. 200

B) Rs. 105

C) Rs. 250

D) Rs. 151

Ans: B) Rs. 105

**Talent Battle** 

Sol: Ratio of profit of A, B, and C.

4500:3500:5500

9:7:11

=> 7x+9x+11x = 405

27x = 405

So, x=15

B's share = 7x = 7x 15 = Rs. 105

6. A man takes twice long to row a distance against the stream as to row the same distance in favour of the stream the ratio of the speed of the boat in still water is ?

A)1:3

B) 3:1

C) 5:6

D)6:5

Ans: B) 3:1

Sol: Let man's upstream be xkmph . then . his rate downstream =3x km/hr (Speed in still water) : (Speed of stream ) = (2x+x/2) : (2x-x/2) = 3x/2 : x/2 = 3:1

7. A person E starts the work 'X' and leave after 12 days, then B and C together complete the remaining work in 8 days. What is the ratio of number of days taken by A and E together to complete the work 'X' to the number of days taken by D, B and C together to complete the both work 'X' and 'Y'.

A) 3:5

B) 5:3

C) 8:7

D) 4: 5

Ans: A) 3:5

Sol.

Let efficiency of E is Z unit/day

he works for 12 days

work complete = 12Z unit

B and C work for 8 days =  $(5 + 4) \times 8$  unit = 72 unit

Remaining work = 180 - 72 = 108 unit

Efficiency of E=108/12= 9 unit/day

Now,

A and E completed work 'X'

=180/15=12 days

D, B and C completed both work 'X' and 'Y'

=(200+180)/19=20 days

Required Ratio = 12:  $20 \Rightarrow 3: 5$ 

8. A is two years older than B who is twice as old as C. If the total of the ages of A, B and C be 27, then how old is B?

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A)7

B)8

C)9

D)10

Answer: D)

## Sol:

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Let C's age be x years. Then, B's age = 2x years. A's age = (2x + 2) years. (2x + 2) + 2x + x = 27

5x = 25

x = 5.

Hence, B's age = 2x = 10 years.
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9. Mr. Hamilton invested an amount of Rs. 13,900 divided in two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in 2 years be Rs. 3508, what was the amount invested in Scheme B?

- A) Rs. 6400
- B) Rs. 6500
- C) Rs. 7200
- D) Rs. 7500

Ans: Rs. 6400

**Sol:** Let the sum invested in scheme A be Rs. x and that in scheme B be Rs. (13900 - x)

Then, 
$$[x \times 14 \times 2 / 100] \div [\{(13,900 - x) \times 11 \times 2\} / 100] = 3508$$

$$28x - 22x = 350800 - (13900 \times 22)$$

6x = 45000

x = 7500

So, sum invested in Scheme B = Rs. (13900 - 7500) = Rs.6400

10. A train, 800 metre long is running with a speed of 78 km/hr. It crosses a tunnel in 1minute. What is the length of the tunnel (in metres)?

A) 440 metre

B)500 metre

C)260 metre

D)430 metre

Ans:B

**Sol:**Distance travelled in 1 minute =1×60×78×5/18=1300 metre Length of the tunnel =(1300-800)=500 metre.